

**c-erbB-2 / HER-2 / neu**

Catalog # RM-2112-S0 or -S (0.1ml or 1.0ml)

Catalog # RM-2112-R7 (7.0ml)

Please note this data sheet has been changed effective March 29, 2010

**INTENDED USE:**

- **For In Vitro Diagnostic Use:** This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
- **Description:** HER2 gene encodes a transmembrane glycoprotein with tyrosine kinase activity. It is closely related in structure to the epidermal growth factor receptor c-erbB-3/HER3/neu oncoprotein. The protein is detectable in a subset of breast and other carcinomas (urinary bladder, stomach, lung, endometrium and ovary). In the case of breast cancer, over expression determined by immunohistochemistry has been shown to be associated with poor prognosis and an indication to initiate trastuzumab/herceptin therapy.
- **Expected Staining Pattern:** Cell membrane
- **Positive Control:** Breast carcinomas

**MATERIALS PROVIDED:**

**c-erbB-2 / HER-2 / neu (refer to catalog number):**

- #RM-2112-S0 or -S (0.1ml or 1.0ml)
- or
- #RM-2112-R7: (7.0ml) of antibody prediluted in 0.05mol/L Tris-HCl, pH 7.6 containing stabilizing protein and 0.015mol/L sodium azide.
- **Antibody Concentration:** Not known
- **Host:** Rabbit
- **Mol. Wt. of Antigen:** 185kDa
- **Species Reactivity:** Human. Others not tested.
- **Clone Designation:** EP1045Y
- **Ig Isotype / Light Chain:** Rabbit IgG
- **Immunogen:** A synthetic peptide corresponding to the c-terminus of human Her2
- **Microbiological State:** This product is not sterile.

**MATERIALS REQUIRED, BUT NOT PROVIDED:**

- **Antibody Diluent:** For concentrated antibodies, the antibody must be diluted before using. Use Lab Vision Antibody Diluent (catalog # TA-125-UD). Refer to diluent product instructions for use.
- **Negative Control Reagent:** Refer to the "General Protocol" instructions.
- **Visualization System:** Refer to the "General Protocol" instructions.

**METHODS AND PROCEDURES:**

Using UltraVision LP detection systems	
<b>Specimen Preparation</b>	Refer to the "General Protocol" instructions.
<b>Dilution of Concentrated Antibody</b>	1:100 in antibody diluent
<b>Tissue Section Pretreatment</b>	Staining of formalin-fixed tissue sections requires treating the tissue sections in boiling 10mM EDTA, pH 8.0 (Cat.# AP-9004-XXX or TA-XXX-PM2X), heating to 98°C for 20 min using the Thermo Scientific PTModule).
<b>Primary Antibody Incubation Time</b>	20 min at Room Temperature
<b>Visualization</b>	To detect antibody, follow the instructions provided with the visualization system.

Using UltraVision Quanto detection systems	
<b>Specimen Preparation</b>	Refer to the "General Protocol" instructions.
<b>Dilution of Concentrated Antibody</b>	1:400 in antibody diluent
<b>Tissue Section Pretreatment</b>	Staining of formalin-fixed tissue sections requires treating the tissue sections in boiling 10mM EDTA, pH 8.0 (Cat.# AP-9004-XXX or TA-XXX-PM2X), heating to 98°C for 20 min using the Thermo Scientific PTModule).

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<b>Primary Antibody Incubation Time</b>	20 min at Room Temperature
<b>Visualization</b>	To detect antibody, follow the instructions provided with the visualization system.

**STORAGE and STABILITY:**

This product contains sodium azide and is stable for 24 months when stored at 2-8°C. Do not use after expiration date indicated on label of the product. If reagent is not stored as recommended, performance must be validated by the user.